



11701 I-30 Bldg 1, Ste 115 - Little Rock, AR 72209
501-455-3233 Fax 501-455-6118

18 June 2012

Jim Fleer
Oxford Environmental & Safety, Inc
14348 Nieman Rd.
Overland Park, KS 66221

RE: Arkwood Monthly Sampling
SDG Number: 1206139

Enclosed are the results of analyses for samples received by the laboratory on 12-Jun-12 09:15. If you have any questions concerning this report, please feel free to contact me.

Sample Receipt Information:

Custody Seals	✓
Containers Correct	✓
COC/Labels Agree	✓
Preservation Confirmed	✓
Received On Ice	✓
Temperature on Receipt	2.0°C

Sincerely,

A handwritten signature in blue ink that reads "Norma James".

Norma James
President

18 June 2012



Jim Fleer
Oxford Environmental & Safety, Inc
14348 Nieman Rd.
Overland Park, KS 66221
Project: Arkwood Monthly Sampling

Date Received: 12-Jun-12 09:15

CASE NARRATIVE

Sample Delivery Group - 1206139

Semivolatiles Analysis:

The three compounds labeled (surr) on the attached final report are "surrogates." Recovery of surrogates is for lab use only to determine the effectiveness of the extraction procedure; surrogate recoveries are not analytical results. The three surrogate compounds are as follows: 2,4,6-tribromophenol, 2-fluorophenol, and Phenol-d5.

Elevated Detection Limit (EDL2): Note the Pentachlorophenol result for sample 1206139-02RE1 was non-detect at a slightly elevated detection limit due to limited sample volume. The first extraction for this sample did not work due to surrogate failure. The sample was re-extracted using the remaining 485 mL of sample, resulting in a reporting limit of < 5.15 ug/L (EDL2) rather than <5.00 ug/L.

18 June 2012



Jim Fleer
Oxford Environmental & Safety, Inc
14348 Nieman Rd.
Overland Park, KS 66221
Project: Arkwood Monthly Sampling

Date Received: 12-Jun-12 09:15

ANALYTICAL RESULTS

Lab Number: 1206139-01
Sample Name: Mouth
Date/Time Collected: 6/11/12 11:45
Sample Matrix: Water

<u>Semivolatiles</u>	<u>Units</u>	<u>Result</u>	<u>Qualifier(s)</u>	<u>Date/Time Analyzed</u>	<u>Batch</u>	<u>Method</u>
Pentachlorophenol	ug/L	7.13		6/14/12 12:44	A206169	8270D
2,4,6-Tribromophenol [surr]	%	98.2		6/14/12 12:44	A206169	8270D
2-Fluorophenol [surr]	%	68.9		6/14/12 12:44	A206169	8270D
Phenol-d5 [surr]	%	46.6		6/14/12 12:44	A206169	8270D

ANALYTICAL RESULTS

Lab Number: 1206139-02RE1
Sample Name: Weir
Date/Time Collected: 6/11/12 11:35
Sample Matrix: Water

<u>Semivolatiles</u>	<u>Units</u>	<u>Result</u>	<u>Qualifier(s)</u>	<u>Date/Time Analyzed</u>	<u>Batch</u>	<u>Method</u>
Pentachlorophenol	ug/L	< 5.15	EDL2	6/14/12 18:15	A206169	8270D
2,4,6-Tribromophenol [surr]	%	83.1		6/14/12 18:15	A206169	8270D
2-Fluorophenol [surr]	%	41.0		6/14/12 18:15	A206169	8270D
Phenol-d5 [surr]	%	31.9		6/14/12 18:15	A206169	8270D

18 June 2012



Jim Fleer
Oxford Environmental & Safety, Inc
14348 Nieman Rd.
Overland Park, KS 66221
Project: Arkwood Monthly Sampling

Date Received: 12-Jun-12 09:15

QUALITY CONTROL RESULTS

Semivolatiles - Quality Control Analyzed: 14-Jun-12 12:02 By: LR

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch A206169 - 3510C Modified

Blank (A206169-BLK1)

Prepared: 13-Jun-12 Analyzed: 14-Jun-12

Pentachlorophenol	ND	5.00	ug/L							
Surrogate: 2,4,6-Tribromophenol	38.2		"	40.0		95.5	19.3-113			
Surrogate: 2-Fluorophenol	25.3		"	40.0		63.4	13-75.4			
Surrogate: Phenol-d5	16.4		"	40.0		40.9	13.1-75.2			

LCS (A206169-BS1)

Prepared: 13-Jun-12 Analyzed: 14-Jun-12

Pentachlorophenol	45.4	10.0	ug/L	40.0		113	62.2-120			
Surrogate: 2,4,6-Tribromophenol	39.9		"	40.0		99.8	19.3-113			
Surrogate: 2-Fluorophenol	25.8		"	40.0		64.5	13-75.4			
Surrogate: Phenol-d5	19.9		"	40.0		49.8	13.1-75.2			

Matrix Spike (A206169-MS1)

Source: 1206158-01

Prepared: 13-Jun-12 Analyzed: 14-Jun-12

Pentachlorophenol	53.7	10.0	ug/L	40.0	ND	134	29.2-146			
Surrogate: 2,4,6-Tribromophenol	38.5		"	40.0		96.2	19.3-113			
Surrogate: 2-Fluorophenol	19.3		"	40.0		48.2	13-75.4			
Surrogate: Phenol-d5	14.9		"	40.0		37.2	13.1-75.2			

Matrix Spike Dup (A206169-MSD1)

Source: 1206158-01

Prepared: 13-Jun-12 Analyzed: 14-Jun-12

Pentachlorophenol	48.6	10.0	ug/L	40.0	ND	121	29.2-146	10.0	25.6	
Surrogate: 2,4,6-Tribromophenol	35.7		"	40.0		89.2	19.3-113			
Surrogate: 2-Fluorophenol	19.9		"	40.0		49.7	13-75.4			
Surrogate: Phenol-d5	15.4		"	40.0		38.5	13.1-75.2			

QUALIFIER(S)

*EDL2: Elevated Detection Limit Due to Limited Sample Volume

All Analysis performed according to EPA approved methodology when available:

SW 846, Revised December, 1996; EPA 600/4-79-020, Revised March, 1983; Standard Methods, 20th Edition.

Instrument calibration and quality control samples performed at or above frequency specified in analytical method.

Reviewed by:

A handwritten signature in blue ink, reading "Norma James", is written over a horizontal line.

Norma James
President





Jim Fleeer
Oxford Environmental & Safety, Inc
14348 Nieman Rd.
Overland Park, KS 66221
Project: Arkwood Monthly Sampling



Arkansas Analytical
Inc.

11701 Interstate 30, Bldg. 1, Ste. 115
Little Rock, AR 72209
PHONE: 501-455-3233
FAX: 501-455-6118

CHAIN OF CUSTODY RECORD

CLIENT INFORMATION		Project Description		Turnaround Time		Preservation Codes:	
Oxford Environmental & Safety, Inc. 14349 Nieman Rd. Overland Park KS 66221		Arkwood Monthly Sampling		24 Hour	48 Hour	72 Hour	1. Cool, 4 Degrees Centigrade 2. Sulfuric Acid (H ₂ SO ₄), pH < 2 3. Nitric Acid (HNO ₃), pH < 2 4. Thiosulfate for Dechlorination 5. Hydrochloric Acid (HCl) 6. Sodium Hydroxide (NaOH), pH > 12
Attn: Jim Fleer		Telephone: 913-706-3422 Email: jfleer@oxfordeands.com		Routine (5 Day) Preservative Code: GA Bottle Type:		Base Type Code: V = Spoke, A = Ash	
Sampler(s) Signature: 		Sampler(s) Printed: James E. Fleer		SAMPLE COLLECTION Field Number: 61112012 Date/Time: 11:45 61112012 11:35		SAMPLE IDENTIFICATION/DESCRIPTION Grab: <input checked="" type="checkbox"/> Camp: <input type="checkbox"/> Bottle: <input type="checkbox"/> Mouth: <input type="checkbox"/> Water: <input checked="" type="checkbox"/> Weir: <input type="checkbox"/>	
3. Requisitioned by: (Signature) 		Date/Time: 6/11/2012 13:15		2. Received by: (Signature) FedGX		SAMPLE CONDITION UPON RECEIPT IN LAB 1. CUSTODY SEALS: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No 2. CONTAINERS CORRECT: <input type="checkbox"/> Yes <input type="checkbox"/> No 3. COCKLEBEL'S AGREE: <input type="checkbox"/> Yes <input type="checkbox"/> No 4. PRESERVATION CONFIRMED: <input type="checkbox"/> Yes <input type="checkbox"/> No 5. RECEIVED ON ICE: <input type="checkbox"/> Yes <input type="checkbox"/> No 6. TEMPERATURE ON RECEIPT: 20C	
3. Requisitioned by: (Signature) FedGX		Date/Time: 6/12/12, 0915		4. Received by lab: (Signature) 		REMARKS / SAMPLE COMMENTS MS/MSD Collected from: Weir O ₃ Flow: 50% O ₃ Conc: 22.1 g/m ³ Dissolved O ₂ : 1.993 ppm Pressure: 17.67 gPH	
3. Requisitioned by: (Signature) FedGX		Date/Time: 6/12/12, 0915		4. Received by lab: (Signature) 		REMARKS / SAMPLE COMMENTS MS/MSD Collected from: Weir O ₃ Flow: 50% O ₃ Conc: 22.1 g/m ³ Dissolved O ₂ : 1.993 ppm Pressure: 17.67 gPH	